



CSRME NEWSLETTER

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CHINESE SOCIETY FOR ROCK MECHANICS & ENGINEERING

CSRME held the third lecture of "Rock Mechanics and Engineering Cloud Class"



On June 16, 2020, Professor Hongpu Kang, one of the Vice Presidents of the CSRME, gave the third lecture of "Rock Mechanics and Engineering Cloud Class". The topic of this lecture is "theory and technology for controlling surrounding rock of roadway in kilometer deep well". This lecture was presided over by Professor Li Xiao, who is also one of the Vice Presidents of the CSRME.

Professor Hongpu Kang introduced in detail the research status of surrounding rock control technology in domestic and deep mining roadways. Combined with the geomechanical characteristics of surrounding rock of roadway in a kilometer deep well in China, he expounded the control principle of "three-in-one" and "three-initiatives" for support, modification and pressure relief of surrounding rock of roadway. The coordinated control of roadway surrounding rock through time and space reduced the roadway deformation and maintained surrounding rock stability. Furthermore, he also introduced in detail the technology, materials, instruments and equipment for the coordinated control

of support, modification and pressure relief of surrounding rock of roadway in kilometer deep well.

So far, this lecture has been visited by more than 136000 audiences. Since the launching of the "Rock Mechanics and Engineering Cloud Class", more than 180,000 audiences have watched the live broadcast of all the three lectures. This shows that the "Rock Mechanics and Engineering Cloud Class" has been gaining wider and wider attention from the society.

A video conference for work report of China Mining Intellectual Property Alliance

On June 18, 2020, a video conference for work report of China Mining Intellectual Property Alliance was jointly held by the Chinese Society for Rock Mechanics and Engineering (CSRME), China Union for Mining Intellectual Property, and China Mining Scientific Collaborative Innovation Alliance. The theme of this video conference is "Implementing the innovation-driven development strategy and supporting the construction of a strong intellectual property rights powerhouse".



Zhao Gang, deputy Director of the National Intellectual Property Administration, PRC, Professor Manchao He, President of the China Mining Intellectual Property Alliance, and

leaders of more than 20 units attended the video conference. Professor Xiaojie Yang, the Secretary General of the CSRME and the vice president of China Mining Intellectual Property Alliance, presided over this conference.

All the council members of the China Union for Mining Intellectual Property reported their work to the National Intellectual Property Administration, PRC and Beijing Municipal Intellectual Property Office.

This conference conveyed the document spirit of the National Intellectual Property Administration, PRC and summarized relevant work of China Mining Intellectual Property Alliance. This conference laid a solid foundation for the exchange and development of mining intellectual property in the future.

Two Scientific and Technological Achievement Evaluation Meetings organized by CSRME



Recently, two meetings for evaluating scientific and technological achievements were held by CSRME.

One was held on June 29th, 2020, for the project of "Disaster Control and Safe and rapid tunneling of extra-long TBM Tunnel under complex geological conditions". This project focused on theoretical and technical challenges such as disaster prevention and mitigation and safety construction of TBM tunnels under complex geological conditions. Key technologies of disaster prediction and control and rapid tunneling were studied on the basis of practical engineering projects on site, theoretical analysis, numerical simulations and laboratory tests. Many theoretical and technical difficulties were broken in the construction of TBM tunnel under complicated geological conditions. Several supporting technologies for safe and rapid tunneling using TBM were developed and successfully implemented.

The other one was held on July 4, 2020, for the project of "Survey and Monitoring Technology and Application for Engineering Geological Environment in Shallow Sea". This project was jointly completed by the Ocean University of China, the First Institute of Oceanography, Ministry of Natural Resources (MNR), POWERCHINA Huadong Engineering Corporation Limited (HDEC), Qingdao Institute of Marine Geology, MNR, and Sinopec Petroleum Engineering Corporation. Innovative achievements have been made in such areas as fine prospecting technology for engineering geological environment in shallow sea, in-situ monitoring and early warning technology for submarine geological hazard process, the gestation mechanism of typical engineering geological disasters in shoal sea and prevention and control technology for major engineering geological disasters. The research results from this project have been widely used in engineering development, geological disaster prevention and control and ecological environmental protection in the shallow sea area of China. A number of invention patents have been authorized. Several national, industrial or enterprise standards have been formed. Significant economic and social benefits have been achieved.